

CLIENT: PRIME WALLS/ROYA MANUFACTURING

70 Gibson Drive, Unit 5
Markham, ON L3R 4C2

Test Report No: RJ3591-1

Date: October 30, 2014

SAMPLE ID: The test samples are identified as: Alhambra AL-2145
wallcovering adhered to cement board.

SAMPLING DETAIL: Test samples were submitted to the laboratory directly by the client. No special sampling conditions or sample preparation were observed by QAI.

DATE OF RECEIPT: Samples were received at QAI on October 20, 2014.

TESTING PERIOD: October 30, 2014.

AUTHORIZATION: Testing authorized by Ali Nikzad.

TEST REQUESTED: Perform standard flame spread and smoke density developed classification tests on the sample supplied by the Client in accordance with ASTM Designation E84-14, "Standard Method of Test for Surface Burning Characteristics of Building Materials". The foregoing test procedure is comparable to UL 723, ANSI/NFPA No. 255, and UBC No. 8-1.

| TEST RESULTS: | <u>Flame Spread</u> | <u>Smoke Developed</u> |
|----------------------|----------------------------|-------------------------------|
| | 20 | 30 |

Detailed test results are presented in the subsequent pages of this report.

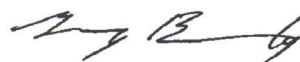
CONCLUSION: The submitted material meets the requirements for a "Class A" Flame Spread. See classification requirements on page 2.

Prepared By



Brian Ortega
Test Technician

**Signed for and on behalf of
QAI Laboratories, Inc.**



Greg Banasky
Senior Technician

PREPARATION: The sample material was cut into three pieces 24" wide by 8 feet long conforming to test chamber dimensions. The sample material was adhered to cement board with a clay based adhesive.

CONDITIONING: The test specimen was conditioned to a constant weight at a temperature of $73.4 \pm 5^\circ \text{F}$ ($23 \pm 2.8^\circ \text{C}$) and a relative humidity of $50 \pm 5\%$.

CEMENT BOARD PLACEMENT: The 1/4" cement boards were placed between the test specimen and the chamber lid...

E 84 TEST DATA SHEET:

CLIENT: PRIME WALLS/ROYA MANUFACTURING DATE: 10-30-2014

SAMPLE: Alhambra AL-2145 wallcovering adhered to cement board

IGNITION: 1 minute, 24 seconds.

FLAME FRONT: 2 feet maximum.

TIME TO MAXIMUM SPREAD: 2 minutes, 40 seconds.

TEST DURATION: 10 minutes.

CALCULATION: $16.07 \times 0.515 = 8.27$

SUMMARY: FLAME SPREAD: 10 SMOKE DEVELOPED: 5

SUMMARY OF ASTM E84 RESULTS: Because of the possible variations in reproducibility, the results are adjusted to the nearest figure divisible by 5. Smoke Density values over 200 are rounded to the nearest figure divisible by 50.

In order to obtain the Flame Spread Classification, the above results should be compared to the following table:

| <u>NFPA CLASS</u> | <u>IBC CLASS</u> | <u>FLAME SPREAD</u> | <u>SMOKE DEVELOPED</u> |
|-------------------|------------------|---------------------|---------------------------|
| A | A | 0 through 25 | Less than or equal to 450 |
| B | B | 26 through 75 | Less than or equal to 450 |
| C | C | 76 through 200 | Less than or equal to 450 |

BUILDING CODES CITED:

1. National Fire Protection Association, ANSI/NFPA No. 101, "Life Safety Code".
2. International Building Code, Chapter 8, Interior Finishes, Section 803.

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